SENDING A PARAMETER BASED ON SCREEN SIZE OR SCREEN RESOLUTION OF A MULTI-PANEL ELECTRONIC DEVICE TO A SERVER

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present disclosure claims the benefit of Provisional Application No. 61/095,225, filed Sep. 8, 2008, which is incorporated by reference herein in its entirety and to which priority is claimed.

FIELD

[0002] The present disclosure is generally related to communication of changes in screen size or screen resolution of one or more displays of a multi-panel electronic device to a server.

DESCRIPTION OF RELATED ART

[0003] Advances in technology have resulted in smaller and more powerful computing devices. For example, there currently exist a variety of portable personal computing devices, including wireless computing devices, such as portable wireless telephones, personal digital assistants (PDAs), and paging devices that are small, lightweight, and easily carried by users. More specifically, portable wireless telephones, such as cellular telephones and internet protocol (IP) telephones, can communicate voice and data packets over wireless networks. Further, many such portable wireless telephones include other types of devices that are incorporated therein. For example, a portable wireless telephone can also include a digital still camera, a digital video camera, a digital recorder, and an audio file player. Also, such wireless telephones can process executable instructions, including software applications, such as a web browser application, that can be used to access the Internet. As such, these portable wireless telephones can include significant computing capabilities.

[0004] Although such portable devices may support software applications, the usefulness of such portable devices is limited by a size of a display screen of the device. Generally, smaller display screens enable devices to have smaller form factors for easier portability and convenience. However, smaller display screens limit an amount of content that can be displayed to a user and may therefore reduce a richness of the user's interactions with the portable device.

SUMMARY

[0005] Depending changes to on screen size or screen resolution at an electronic device (e.g., a multi-panel electronic device), a web browser at the electronic device may automatically change how the web browser presents itself to a web server. For example, the web browser may send the web server a parameter indicating a hardware configuration change at the electronic device that resulted in a change in screen size and/or screen resolution. The web server may modify web page content based on the parameter, and the web browser at the mobile device may automatically refresh and display the modified web page content. Thus, for example, when a multi-panel electronic device changes from one active display surface to three active display surfaces, a narrow version of a web page formatted for display at a single display surface may automatically be replaced with a widescreen version of the web page that is formatted for display across three active display surfaces.

[0006] In a particular embodiment, a method is disclosed that includes detecting a hardware configuration change at an electronic device. The electronic device includes at least a first panel having a first display surface and a second panel having a second display surface. An effective screen size or a screen resolution corresponding to a viewing area that includes the first display surface and the second display surface is modified in response to the hardware configuration change. The method also includes sending at least one parameter associated with or based on the modified effective screen size or the modified screen resolution to a server in response to the hardware configuration change.

[0007] In another particular embodiment, an electronic device is disclosed. The electronic device includes a first panel having a first display surface and a second panel having a second display surface. The electronic device also includes a processor configured to detect a hardware configuration change at the electronic device. The processor is also configured to modify an effective screen size or a screen resolution corresponding to a viewing area that includes the first display surface and the second display surface in response to the hardware configuration change. The processor is further configured to send at least one parameter to a server in response to the hardware configuration change. The at least one parameter is associated with or based on the modified effective screen size or the modified screen resolution.

[0008] In another particular embodiment, a method is disclosed that includes transmitting a first version of a web page from a web server to an electronic device. The method also includes receiving a browser setting from the electronic device, wherein the browser setting indicates a change in at least one of an effective screen size and an effective screen resolution of the display device. The method further includes generating a second version of a web page in based on the browser setting. The method includes transmitting the second version of the web page from the web server to the electronic device.

[0009] One particular advantage provided by at least one of the disclosed embodiments is an intuitive operation of a multi-panel electronic device in which a web browser communicates changes in screen size or screen resolution to a web server and automatically refreshes to display modified web page content that is modified by the web server in accordance with the changes.

[0010] Other aspects, advantages, and features of the present disclosure will become apparent after review of the entire application, including the following sections: Brief Description of the Drawings, Detailed Description, and the Claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] FIG. **1** is a diagram of a first illustrative embodiment of an electronic device;

[0012] FIG. **2** is a diagram of an illustrative embodiment of the electronic device of FIG. **1** in a fully folded configuration;

[0013] FIG. **3** is a diagram of an illustrative embodiment of the electronic device of FIG. **1** in a thumbing configuration;

[0014] FIG. **4** is a diagram of an illustrative embodiment of the electronic device of FIG. **1** in a travel clock configuration;